



April 2008
Issue 25



Arizona Department of Education
Tom Horne, Superintendent of Public Instruction



Educational Services and
Resources Division

CTE FACTS

- Vision** Ensure a dynamic workforce by fully developing every student's career and academic potential.
- Mission** Prepare Arizona students for workforce success and continuous learning.

Arizona Technology Trends:

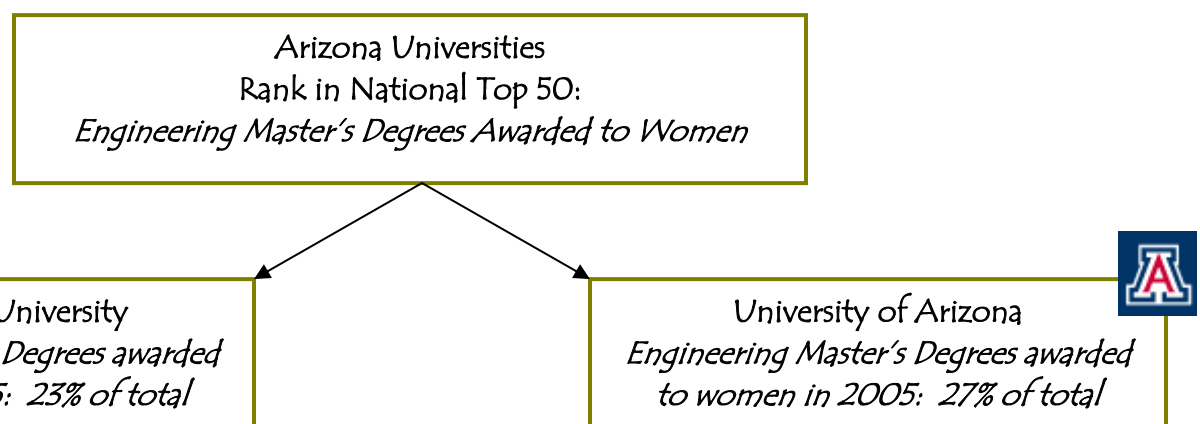
- Let CTE Open the Door to Employment Opportunities -

Solar: By 2025 Arizona public utilities regulators are requiring all utility companies to generate 15% of their electricity from renewable sources. In 2009 the Solana Generating Station, located in Gila Bend, will use the sun's *heat*, not its light, to produce power. This \$1 billion plant will be able to produce power even after the sun goes down.¹

Engineering: Google opened an office on the campus of Arizona State University in the fall of 2007. The primary focus of Google Tempe will be engineering, operations and IT support functions as part of its worldwide effort to build engineering centers in locations where there are great engineers.²

Photovoltaic: Science Foundation of Arizona invested \$2.2 million, which will be matched by collaborative partner BP North America, in a partnership between Arizona State University and one of the world's largest energy companies to research the use of photovoltaic materials to grow and harvest bioorganisms to create renewable energy sources.³

Opportunities for Nontraditional Students in Engineering Sciences:



Source: Commission on Professionals in Science and Technology, data derived from Engineering Workforce Commission, *Engineering and Technology Degrees, 2005*, among schools granting 30 or more engineering master's degrees to women per year.

To Quote: *“An education isn’t how much you have committed to memory, or even how much you know. It’s being able to differentiate between what you know and what you don’t.” - Anatole France*

2007 Performance Measures⁴

Program	Percent Concentrators who met or exceeded :		Percent Completers:	
	AIMS Math Standards	AIMS Reading Standards	Who attained Vocational Competency	Placed
Accounting and Related Services	97.54	96.84	70.13	76.92
Agriscience	87.46	90.88	64.12	74.53
Allied Health Services	95.09	98.11	71.45	79.66
Automotive Technologies	88.13	89.67	61.51	68.81
Business Mgmt & Admin Services	89.64	92.23	63.98	75.38
Construction Technologies	81.57	82.02	69.79	60.57
Cosmetology	91.93	95.09	75.63	77.39
Culinary Arts	86.05	90.53	72.34	66.97
Design and Merchandising	88.83	91.50	68.97	63.37
Drafting/Design Technology	94.78	94.90	69.02	72.18
Early Childhood Education	81.89	87.00	71.84	72.08
Education Professions	90.36	94.55	75.41	84.62
Electronics Technology	95.49	95.52	68.89	74.24
Financial Services	90.65	93.46	59.29	80.56
Fire Science	85.83	91.41	66.29	68.81
Graphic Communications	90.81	94.23	66.87	68.76
Horticulture	85.71	60.00	77.78	57.14
Hospitality Management	87.50	89.02	79.41	64.15
Industrial Manufacturing	88.24	91.18	91.18	100
Information Technology	94.50	96.40	69.20	71.23
Law, Public Safety and Security	91.35	94.51	38.92	68.48
Marketing, Management and Entrepreneurship	94.96	97.19	67.02	71.10
Nursing Services	94.95	96.97	84.68	78.76
Radio/Television Technology	92.10	96.45	74.13	66.17
Renewable Natural Resources	78.57	75.00	35.29	67.86
Welding Technology	83.65	86.55	75.33	57.14
Woodworking	76.36	88.73	76.36	72.49

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¹"Arizona to become 'Persian Gulf' of solar energy," CNN.com, February 2008.

²"Google: The Arizona Connection," TECH Connect Magazine, Winter 2008, pp. 40-41.

³"At A Crossroads," TECH Connect Magazine, Winter 2008, pp. 48-49.

⁴Arizona Department of Education, Career and Technical Education, 2007 State-Wide Program PM.